

CLAIMS:

1. A high-pressure gas-discharge lamp, having at least one gastight fused press-seal between a glasslike material and molybdenum, wherein the molybdenum in the fused press-seal is at least partly exposed to an oxidizing environment and at least that part of the molybdenum that is exposed to the oxidizing environment is covered with a coating,
5 characterized in that the coating comprises at least one oxide from among Fe_2O_3 , Ta_2O_5 , Nb_2O_5 , Al_2O_3 , SiO_2 , TiO_2 , ZrO_2 , HfO_2 , and/or one nitride from among TiN , ZrN , HfN , AlN , BN , and/or one carbide from among TiC , ZrC , HfC , VC , NbC , TaC , B_4C .
2. A high-pressure gas-discharge lamp as claimed in claim 1, characterized in
10 that the coating has a film thickness of from 5 nm to 20 μm .
3. A high-pressure gas-discharge lamp as claimed in claim 1, characterized in that the coating is built up from at least two layers.
- 15 4. A high-pressure gas-discharge lamp as claimed in claim 3, characterized in that the layer of the coating that is applied directly to the molybdenum is composed of a nitride and /or carbide and the following layer is composed of an oxide and/or a plurality of oxides.
- 20 5. A high-pressure gas-discharge lamp as claimed in claim 4, characterized in that the following layer is preferably composed of Al_2O_3 .
6. A high-pressure gas-discharge lamp as claimed in claim 3, characterized in that the layer that is applied directly to the molybdenum is preferably composed of AlN or
25 Ta_2O_5 .
7. A high-pressure gas-discharge lamp as claimed in claim 1, characterized in that the reduction in the size of the fused press-seal, and particularly in the longitudinal extent

of that part of the molybdenum that is not exposed to an oxidizing environment, can be obtained as a function of the particular material of which the coating is composed.

8. A high-pressure gas-discharge lamp as claimed in at least one of claims 1 to 7
5 for use for projection purposes.
9. A lighting device and/or projection device comprising at least one high-pressure gas-discharge lamp as claimed in at least one of claims 1 to 7.